APR 2 0 2007 W

Docket No.: 58086-232072

(PATENT)

## THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

George GRUNER

Art Unit: 1754

Application No: 10/582,407

Examiner: Not Yet Assigned

Confirmation No: 1100

Filed: June 9, 2006

Atty. Docket No: 58086-232072

Customer No:

For: ACTIVE ELECTRONIC DEVICES WITH

NANOWIRE COMPOSITE

COMPONENTS

\*26694\*
PATENT AND TRADEMARK OFFICE

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear on any patent to issue therefrom. A copy of each of documents are enclosed.

This Supplemental Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

In accordance with 37 CFR 1.97(g), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the

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PTO/SB/17 (07-06) Approved for use through 01/31/2007. OMB 0651-0032 Trademark Office; U.S. DEPARTMENT OF COMMERCE

Each claim over 20 (including Reissues)  Each independent claim over 3 (including Reissues)  Multiple dependent claims  Total Claims  Extra Claims  Fee (\$)  Fee Pald (\$)  HP = highest number of total claims paid for, if greater than 20.  Indep. Claims  Extra Claims  Extra Claims  Fee (\$)  Fee Pald (\$)  Indep. Claims  Extra Claims  Fee (\$)  Fee Pald (\$)  Indep. Claims  Extra Claims  Fee (\$)  Fee Pald (\$)  Indep. Claims  Extra Claims  Fee (\$)  Fee Pald (\$)  Indep. Claims  Extra Claims  Fee (\$)  Fee Pald (\$)  Indep. Claims  Extra Claims  Fee (\$)  Fee Pald (\$)  Indep. Claims  Extra Claims  Fee (\$)  Fee Pald (\$)  Indep. Claims  Extra Claims  Fee (\$)  Fee Pald (\$)  Indep. Claims  Extra Claims  Fee (\$)  Fee Pald (\$)  Indep. Claims  Extra Claims  Fee (\$)  Fee Pald (\$)  Indep. Claims  Extra Claims  Fee (\$)  Fee Pald (\$)  Indep. Claims  Extra Claims  Fee (\$)  Fee Pald (\$)  Indep. Claims  Extra Claims  Fee (\$)  Fee Pald (\$)  Indep. Claims  Extra Claims  Fee (\$)  Fee Pald (\$)  Indep. Claims  Indep. Claims  Extra Claims  Fee (\$)  Fee Pald (\$)  Indep. Claims  Indep. Claims  Indep. Claims  Fee (\$)  Fee Pald (\$)  Indep. Claims  I	Victor the Paneawork Pa	tion Act of 1995	no person are r	equired to	U.S. Patent	and Tradem	ark Office; U.S. DEF	ARTMENT C	OF COMMERCE
FEE TRANSMITTAL For FY 2005    X   Applicant claims small entity status. See 37 CFR 127   TOTAL AMOUNT OF PAYMENT   (3) 0.00   Attorney Docket No.   56096-232072   METHOD OF PAYMENT (check all that apply)	ditagn the Paperwork Nacy	CHOIT ACT OF 1995	, no person are r	equired to	respond to a collectio	Com	polete if Know	n	Control Humber.
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Examiner Name   Not Yet Assigned   Not Yet Assign				•		entor	George Gruner	-	
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Application Type	<del></del>	37 CFR 1.16	and 1.17			u, 0.0.p.			
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Reissue 300 150 500 250 600 300  Provisional 200 100 0 0 0 0 0 0  2. EXCESS CLAIM FEES  Fee Description  Each claim over 20 (including Reissues)  Each independent claim over 3 (including Reissues)  Multiple dependent claims  Total Claims  Extra Claims  Fee (\$) Fee Paid (\$)  HP = highest number of total claims paid for, if greater than 20.  Indep. Claims  Extra Claims  Fee (\$) Fee Paid (\$)  HP = highest number of independent claims  APPLICATION SIZE FEE  If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).  Total Sheets  Extra Sheets  Number of each additional 50 or fraction thereof  Fee (\$) Fee Paid (\$)  O - 100 = /50 (round up to a whole number) x = 4. OTHER FEE(S)  Non-English Specification, \$130 fee (no small entity discount)  Other (e.g., late filing surcharge):  SUBMITTED BY  Registration No. (Automey/Agent) 42,459 Telephone (202) 344-4362	Design	200	100	100	50	130	65		
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A. OTHER FEE(S)  Non-English Specification, \$130 fee (no small entity discount)  Other (e.g., late filing surcharge):  SUBMITTED BY  Registration No. (Attorney/Agent)  Registration No. (Attorney/Agent)  Registration No. (202) 344-4362	Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$)								
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Application No.: 10/582,407 Docket No.: 58086-232072

filing of this Supplemental Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Supplemental Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed documents.

It is believed that no fee is due for the submission of this Supplemental Information Disclosure Statement. However, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0261, under Order No. 58086-232072. A fee transmittal is enclosed.

Dated: April 20, 2007

Respectfully submitted,

Henry J. Daley

Registration No.: 42,459

VENABLE LLP P.O. Box 34385

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(202) 344-4000

(202) 344-8300 (Fax)

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Sub	estitute for form 1449A/B/P	го		Complete if Known		
		_		Application Number	10/582,407	
11	<b>NFORMATION</b>	N DI	SCLOSURE	Filing Date	June 9, 2006	
STATEMENT BY APPLICANT				First Named Inventor	George GRUNER	
				Art Unit	1754	
	(Use as many sh	eets as	s necessary)	Examiner Name	To Be Assigned	
Sheet	1	of	2	Attorney Docket Number	58086-232072	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1	AGO, H., et al., "Composites of Carbon Nanotubes and Conjugated Polymers for Photovoltaic Devices", <i>Advanced Materials</i> , 11, No. 15, p. 1281-1285 (1999)	
	2	ARMITAGE, N.P., "Quasi-Langmuir-Blodgett Thin Film Deposition of Carbon Nanotubes," Journal of Applied Physics Letters, Vol. 95, No. 6, March 15, 2004, p. 3228-3330.	
	3	BACHTOLD, Adrian, et al., "Logic Circuits with Carbon Nanotube Transistors", <b>Science</b> , Vol. 294, November 9, 2001, p. 1317-1320.	
	4	BRADLEY, K. et al., "Flexible Nanotube Electronics," <i>Nano Letters</i> , Vol. 3, No. 10, p. 1353-1355, (2003).	
	5	CHEN et al., "Noncovalent Engineering of Carbon Nanotube Surfaces by Rigid, Functional Conjugated Polymers", <i>J. Am. Chem.</i> Soc., 124, p. 9034-9035 (2002).	
	6	CHEN, R.J., et al., "Noncovalent Functionalization of Carbon Nanotubes for Highly Specific Electronic Biosensors," <i>PNAS</i> , Vol. 100, No. 9, p. 4984-2989 (2003).	
	7	CUI, J.B., et al., "Carbon Nanotube Memory Devices of High Charge Storage Stability", Applied Physics Letters, Vol. 81, No. 17, October 21, 2002, p. 3260-3262.	
	8	DERYCKE, V., et al., "Carbon Nanotube Inter-and Intramolecular Logic Gates," <i>Nano Letters</i> . Vol. 1, No. 9, September 2001, p. 453-456.	
	9	DUAN, X., et al., "General Synthesis of Compound Semiconductor Nanowires", <u>Advanced</u> <u>Materials</u> , 12, No. 4, p. 298-302, (2000).	
	10	FUHRER, M.S. et al., "High-Mobility Nanotube Transistor Memory", <i>Nano Letters</i> , Vol. 2, No. 7, p. 755-759 (2002).	
	11	GABRIEL, J.C., "Large Scale Production of Carbon Nanotube Transistors: A Generic Platform for Chemical Sensors", <i>Mat. Res. Symp. Soc. Proc.</i> , Vol. 776, p. Q12.7.1 – Q12.7.7, (2003).	
	12	STAR A., et al., "Polymer Coatings of Carbon Nanotube Sensors," <i>Polymer Prep.</i> 44(2): 201 (2003).	
	13	HUYNH, W. U., et al., "Hybrid Nanorod-Polymer Solar Cells", Science, Vol. 295, March 29, 2002, p. 2425-2427.	
	14	JAVEY, Ali, et al., "Electrical Properties and Devices of Large-Diameter Single-Walled Carbon Nanotubes," <i>Applied Physics Letters</i> , Vol. 80, No. 6, February 11, 2002, p. 1064-1066.	
	15	MARTEL, R., et al., "Single-and Multi-wall Carbon Nanotube Field-effect Transistors," <i>Applied Physics Letters</i> , Vol. 73. No. 17, October 26, 1998, p. 2447-2449.	
	16	MCEUEN, Paul L., et al., "Disorder, Pseudospins, and Backscattering in Carbon Nanotubes," <i>Physics Review Letters</i> , Vol. 83, No. 24, December 13, 1999, p. 5098-5101.	
	17	GABRIEL A., et al., "Electronic Detection of Specific Protein Binding Using Nanotube FET Devices," <i>Nano Letters</i> , Vol. 3, No. 4, p. 459-463 (2003).	
	18	SNOW, E.S., et al. "Random Networks of Carbon Nanotubes as an Electronic Material,"  Applied Physics Letters, Vol. 82, No. 13, March 31, 2003, p. 2145-2147.	
	19	RAMAMURTHY, P.C., et al. "Polyaniline/Single Walled Carbon Nanotube Composite Electronic Devices," <i>SOLID-STATE ELECTRONICS</i> , Vol. 48, (11 <sup>th</sup> Foresight Conference, October 10-12, 2003) p. 2019-2024 (2004).	
	20	RADOSAVLJEVIC, M., et al., "Nonvolatile Molecular Memory Elements Based on	

Examiner	Date	
Signature	Considered	

#790275v2 DC PTO/SB/08a/b (07-05)

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Substitute for form 1449A/B/PTO				Complete if Known		
				Application Number	10/582,407	
11	<b>NFORMATION</b>	1 DI	SCLOSURE	Filing Date	June 9, 2006	
l s	TATEMENT E	3Y /	APPLICANT	First Named Inventor	George GRUNER	
			- -	Art Unit	1754	
	(Use as many she	eets as	s necessary)	Examiner Name	To Be Assigned	
Sheet	2	of	2	Attorney Docket Number	58086-232072	

	Ambipolar Nanotube Field Effect Transistors", <i>Nano Letters</i> , Vol. 2, No. 7, p. 761-764 (2002).
21	TANS, Sander J., et al., "Room-temperature Transistor Based on a Single Carbon Nanotube," Nature, Vol. 393, May 7, 1998, p. 49-52.
22	YU, G. et al., "Polymer Photovoltaic Cells: Enhanced Efficiencies via a Network of Internal Donor-Acceptor Heterojunctions", <i>Science</i> , Vol. 270, December 15, 1995, p. 1789-1791.
23	KYMAKIS E. et al., "Single-Wall Carbon Nanotube/Conjugated Polymer Photovoltaic Devices", <i>Journal of Applied Physics Letters</i> , Vol. 80, No. 1, January 7, 2002, p. 112-114.

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner	Date	
Signature	Considered	<b>d</b>
#700275.2		

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<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.